

**We claim:**

1. A reflector for lights of higher power, said reflector comprising  
a base body made of glass or glass ceramic, wherein said base body is formed with a receptacle for a light source and said base body has an interior mirror surface and an outer surface; and  
a protective jacket provided on the outer surface of the base body, wherein said protective jacket comprises a mat or is mat-shaped.
2. The reflector as defined in claim 1, wherein the protective jacket consists of said mat and said mat comprises a glass-fiber reinforced textile fabric.
3. The reflector as defined in claim 1, wherein the protective jacket consists of said mat and said mat comprises a carbon-fiber reinforced textile fabric.
4. The reflector as defined in claim 1, wherein the protective jacket consists of said mat and said mat comprises ceramic fibers.
5. The reflector as defined in claim 1, wherein the protective jacket consists of said mat and said mat comprises metal fibers.

6. The reflector as defined in claim 1, wherein the protective jacket consists of a fleece of glass fibers, carbon fibers or ceramic fibers.
7. The reflector as defined in claim 1, wherein the protective jacket consists of a pressed mat-shaped body and said mat-shaped body comprises an inorganic mineral material.
8. The reflector as defined in claim 1, wherein the protective jacket is glued to the outer surface of the base body with an adhesive.
9. The reflector as defined in claim 8, wherein said adhesive is a water glass.
10. The reflector as defined in claim 1, wherein the protective jacket consists of a separate hood-shaped body, which is placed on the outside of the reflector.
11. The reflector as defined in claim 1, wherein the protective jacket is colored.
12. The reflector as defined in claim 1, wherein the protective jacket is saturated with a hardenable substance.
13. The reflector as defined in claim 1, wherein the protective jacket is provided with an outer organic coating.

14. The reflector as defined in claim 13, wherein the organic coating is a lacquer or varnish layer.

15. The reflector as defined in claim 13, wherein the organic coating is a fluoropolymer layer.

16. The reflector as defined in claim 1, wherein said light source is a gas discharge lamp.